



Windshield Washer Antifreeze -20/DEG

Revision Date: 5/8/2013
Date Issued: 6/1/2008

MSDS Number: 3112-RB

Section 1 – Chemical Product and Company Information

Product Name: Windshield Washer Antifreeze -20/DEG
Trade Name: MSDS applies to all Windshield Washer Antifreeze -20/Deg regardless of Brand or Trade Name
Product Use: Windshield Washer Fluid
Company: South/Win Ltd.
3818 Burlington Rd.
Greensboro, NC 27405
Telephone: (800) 648-4393
Emergency Telephone Number: CHEMTREC: (800) 424-9300

Section 2 – Composition Information

Component	CAS #	%
Water	7732-18-5	60 - 70
Methanol	67-56-1	30 - 40

Section 3 – Hazards Identification

EMERGENCY OVERVIEW: POISON! Product is very HARMFUL. May be FATAL or cause blindness if swallowed.

Potential Health Effects:

Inhalation: Vapors may cause slight irritation to the mucous membranes. Exposure to vapors over an extended period of time may lead to toxic effects on the nervous system in general and the optic nerve in particular. Once absorbed into the body it is slowly eliminated. Symptoms include: headache, drowsiness, blurred vision, nausea, vomiting, coma and death. A person may get better after prolonged exposure but then could worsen again up to 30 hours later.

Ingestion: May be fatal or cause blindness if swallowed. Death occurs usually after consuming 3 ounces of this product. Symptoms parallel symptoms observed during inhalation.



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Skin Contact: May cause skin irritation through defatting which leads to dry and cracked skin. Skin absorption can occur leading to symptoms similar to those seen through inhalation.

Eye Contact: May cause eye irritation; prolonged exposure can lead to eye lesions.

Chronic Effects: Marketed impairment of vision has been reported. Skin irritation has also been observed.

Aggravation of Pre-existing Conditions: Persons with pre-existing skin disorders, eye problems, or impaired liver or kidney functions may be more susceptible to the effects of this substance.

Section 4 – First Aid Measures

Inhalation: If inhaled, move to fresh air. If breathing is difficult, administer artificial respiration (mouth to mouth) or oxygen as indicated. Contact a physician immediately.

Ingestion: DO NOT DELAY. CONTACT A PHYSICIAN IMMEDIATELY! Induce vomiting as directed by medical personnel if victim is conscious. Do not give liquids to a drowsy, convulsing or unconscious person. If vomiting occurs spontaneously, keep head below the hips to prevent aspiration of material into the lungs. Seek medical attention immediately.

Oral LD 50: N/D

Skin: Wash affected area with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. Contact a physician if irritation develops.

Eyes: Flush with large amounts of cold water for at least 15 minutes. Do not let victim rub eyes. Contact a physician immediately.

Section 5 – Fire Fighting Measures

Flash Point: 33°C (91°F)
Method Used: TCC

Extinguisher Media: Carbon dioxide, Dry chemical, Alcohol Foam.



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Storage: Store in closed containers in a cool, dry, well-ventilated area; maintain closure of bungs. Do not reuse container. Avoid container damage while storing. Do not allow material to be stored above 20°C (68°F).

Empty Container Warning: Empty containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, bronze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition; they may explode and cause injury or death. Do not attempt to refill containers since residue is difficult to remove. Empty drums should be completely drained, properly bunged and returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner in accordance with governmental regulations.

Section 8 – Exposure Controls/ Personal Protection

Exposure guidelines:

Methanol: **OSHA Permissible Exposure Limit (PEL) – 200 ppm; ACGIH Threshold Limit Value – 200 ppm (Time Weighted Average), 250 ppm (Short Term Limit Value) skin**

Respiratory Protection: General room ventilation should be satisfactory. Local exhaust ventilation may be necessary if misting is generated. If the exposure limit is exceeded, then a full-face respirator, airlined hood or full face piece self-contained breathing apparatus must be worn.

Protective Gloves: Wear neoprene rubber gloves, protective boots, gloves, lab coat, apron or overalls as appropriate to prevent skin contact.

Eye Protection: Safety glasses with side shields or chemical goggles are required. Contact lenses should also not be worn if the product could be splashed into the eyes. Keep eye wash fountain and quick-drench facilities in work area.

Other Protective Wear: To prevent repeated and prolonged skin contact, wear impervious clothing and boots.

Work Practices: Read label for instructions in use of product.



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Section 9 – Physical/Chemical Characteristics

Appearance and Odor:	Blue liquid, mild alcohol odor
Boiling Point:	86°C (187°F)
Flash Point:	33°C (91°F)
Method Used:	TCC
Flammable Limits in air % by volume:	N/D
Auto-Ignition Temp:	470°C (878°F) as methanol
LEL:	6% as methanol
UEL:	36% as methanol
Specific Gravity:	0.950 – 0.960 @ 20°C (68°F)
Vapor Pressure @ 20°C:	N/D
Vapor Density:	1.1 (Air = 1)
Solubility in Water:	Miscible
Freezing Point:	-29°C (-20°F)
pH in water:	6-8

Section 10 – Stability and Reactivity

Stability:	Stable X	Unstable
Conditions to Avoid:	Heat, flames, ignition sources and incompatibilities	
Incompatibility:	Strong acids, oxidizing agents and aluminum	
Hazardous Decomposition Products:	Oxides of carbon and formaldehyde	
Hazardous Polymerization:	May occur	Will not occur X



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Section 11 – Toxicological Data

Eye Irritation: N/D

Dermal Toxicity Draize Test: 20 mg/ 24 hours Rabbit for Methanol

Oral Toxicity: LD 50: 5,628 mg/kg, Rat for Methanol

Inhalation Toxicity: LC50: 64,000 ppm/1 hour Rat for Methanol

Carcinogenicity: NTP: N/D
IARC: N/D
ACGIH: N/D

Section 12 – Ecological Information

When released into the soil, this material is expected to readily degrade
When released into the water, this material is expected to have a half-life between 1 and 10 days.

Persistence and Degradability: Not established.

Section 13 – Disposal Considerations

Waste Disposal: All recovered material should be packaged, labeled, transported and disposed or reclaimed in conformance with Good Engineering Practices. Comply with all applicable governmental regulations. Avoid land filling of liquids. Reclaim where possible.

Product can be disposed of in a licensed facility.



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Section 14 – Transport Information

US Department of Transportation

Hazard Class/Division:	3 (Flammable liquid)
Identification Number:	UN1993
Packing Group:	III
Proper Shipping Name:	Alcohols N.O.S. (Methanol)
Product shipment size:	In containers with greater than 5 liter capacity
Hazard Class: ORM-D;	Quantities less than 5 liters

Section 15 – Regulatory Information

OSHA (Occupational Safety, and Health Administration)
29 CFR 1910.1200 Hazardous Chemical: yes

SARA (Superfund Amendment and Reauthorization Act)

Section 311: Hazardous Chemical - yes
Immediate - yes
Delayed - yes
Fire - yes
Sudden Release - no
Reactive - no

Section 313: Toxic Chemical – yes
Methanol: CAS # 67-56-1: 30-40%

CERCLA Reportable Quantities (RQ) SARA 302 Threshold Planning Quantities (TPQ)

None

TSCA (Toxic Substance Control Act)

All of the ingredients in this product are listed on the TSCA Inventory.



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California Prop 65:
This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Section 16 – Other Information

None

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